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INDIAN RIVER NURSERIES

ESTABLISHED 1886



FAMILY AVOCADO

Avocado Catalogue 1924

JOHN B. BEACH, Proprietor

West Palm Beach & Palm Beach County & Florida

DADE LUMBER COMPANY

WEST PALM BEACH -:- FLORIDA

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Catalogue of

INDIAN RIVER NURSERIES

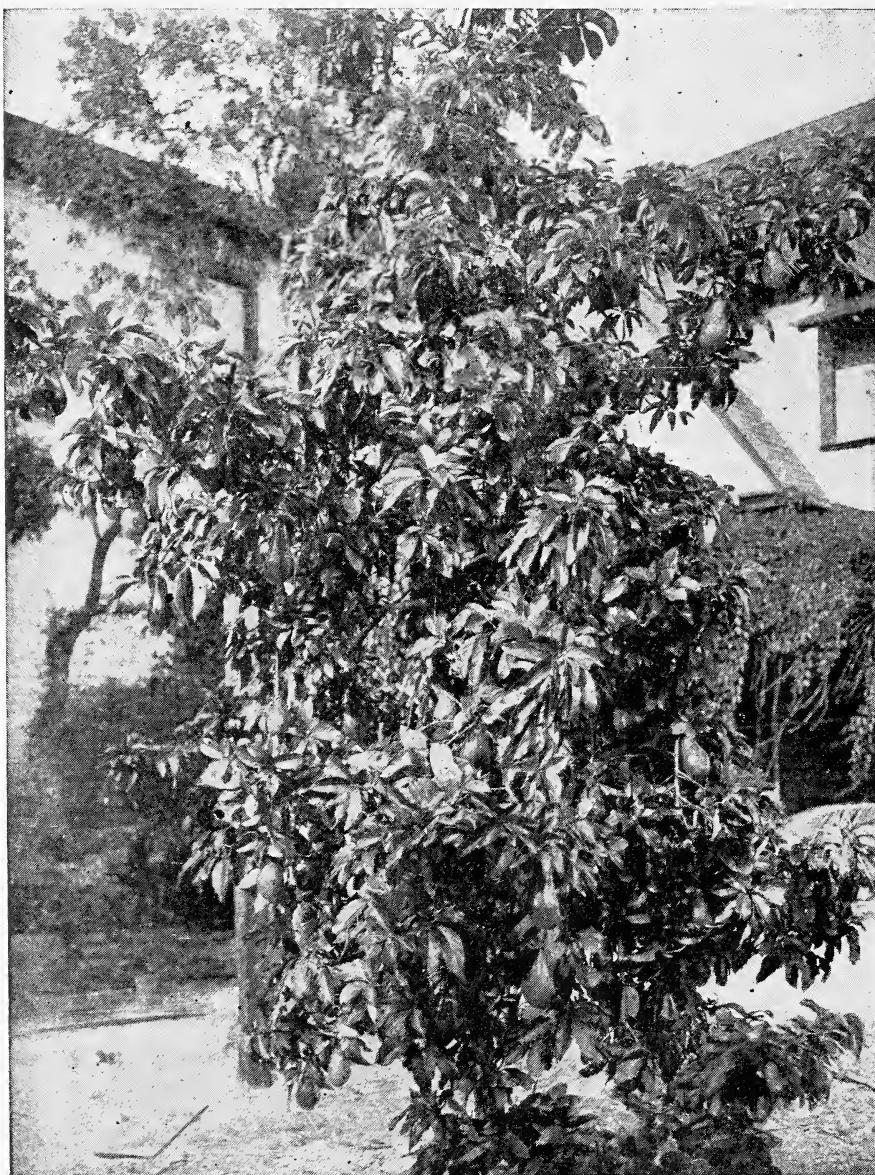
(ESTABLISHED 1886)

GRAFTED AVOCADOS AND EAST
INDIAN MANGO TREES
OUR SPECIALTY

West Palm Beach, Palm Beach County, Florida

Branch: Kraemer Id., Lake Okeechobee

JOHN B. BEACH, Proprietor



Seven-Year-Old Family Avocado at West Palm Beach

TERMS OF SALE

Terms cash with order if for immediate shipment; if for future delivery, 25 per cent, balance at time of shipment.

After delivering the goods to carriers we cannot hold ourselves responsible for any loss or injury to trees or plants which have been carefully packed and shipped; but we shall do everything in our power, if any loss should occur, for the protection and recovery of our customer's property. If any mistakes are made in filling orders, we shall carefully rectify the same, but must respectfully request a prompt notification on receipt of goods.

In case of any error on our part it is mutually agreed that we shall not be held responsible for a greater amount than the purchase price.

Prices quoted are f.o.b. Nursery. In case stock has to be crated for shipment by rail, a small extra charge will be made to cover cost. It will be \$10 per 100 on trees growing in 5-inch boxes.

ADVICE TO GROWERS

HIGH LAND PLANTING

In planting trees in Dade, Palm Beach and St. Lucie Counties, experience has taught me certain things of value to customers, and I want to give a few hints on this line. In planting citrus trees never plant on mounds, as practiced in some localities farther north. **provided you have proper drainage.** In fact, on high, coarse, thirsty sand, setting an inch or two **deeper** is actually beneficial. Make a basin around the tree three feet in diameter, to hold several buckets of water, and mulch heavily with tobacco stems for six inches about the trunk. Outside of this any sort of mulching can be used, but it must admit water readily and give plenty of shade. Don't be afraid to use **plenty** of water; you can't use too much down here. The **more** you water the first year, the better grove you will have at the end of five years.

The above applies, of course, only to well drained land.

In planting Mangos, Avocados—in fact almost anything else but citrus trees—always plant from two to six inches deeper than they originally grew, and mulch in same manner. A very good way is to make a hole several feet deep, and fill it half full with some well rotted compost, then plant and place a barrel (minus both heads) in the hole about the tree to keep the hole from filling in, and protect from the wind while young.

In places where yellow subsoil appears at a depth of one to four feet a good plan is to dig down to this and fill up with yellow soil taken from some convenient place so that your tree is set in yellow soil all the way. Where compost is not available, a little bone meal mixed thoroughly with soil and allowed a few weeks to decay answers very well with the tobacco mulch to complete the fertilizer.

FLATWOODS PLANTING

In flatwoods it is always advisable to bury $\frac{1}{4}$ pound dynamite $2\frac{1}{2}$ to 4 feet below the surface where the tree hole is to be made, and explode after thorough tamping. It is of great value even where there is no hardpan or rock, as trees planted after this preparation even in sandy spots, show a great gain over those on similar land not thus prepared. It may be due to the nitric fumes of the nitroglycerine, which are driven deep into the soil by the explosion. Also dig out a hole 18 inches deep. and in planting fill with top soil, scraped from the surface, which is always mellower. If you are sure of ample drainage, mounding is not advisable, otherwise it is a wise precaution.

FROST PROTECTION

Where light frosts may be looked for, the following is a suggestion which may or may not prove of value. All Avocados and Mangos while young are subject to injury from light frosts. While small, a cabbage hamper or barrel may be placed beside each tree, and used to cover it when frost is threatened. The second year the trunk and larger limbs may be wrapped with newspaper, as an additional safeguard to the banking with sand, which is generally relied upon.

While trees are young they are severely injured or even killed by cold, which would not hurt them after they have grown to a considerable size, and an excellent policy, which is really only an economical insurance, is to provide sufficient orchard heaters, to be fired when a cold warning is sent out, and protect your young trees from any danger. To aid in utilizing this insurance, it is a good plan to plant some winter truck crop among the newly set grove, which will in no way interfere with the vigor of the trees, and share the protection afforded by the heaters. Or bananas or pineapples may be thus utilized to good advantage. By applying sufficient fertilizer for both, the land may be cropped till the trees crowd out the field crop, with actual benefit to the orchard. The ground is shaded by the crop, and humus supplied.

Avocado growing in Florida is still in its infancy, but we already know that different varieties prove best in different localities. Each grower should plant a number of the most promising sorts, as he cannot tell till he tries just which is going to best suit his local conditions.

AVOCADO

or Alligator Pear (*Persea Gratissima*)

This tree is the greatest money producer for South Florida, and the people of Southern California have gone wild over it. It yields as heavily and bears as early as the grapefruit, under identical conditions of soil and culture and the value of its crop is about five times the market value of the latter. Avocados after November 1st readily bring \$3.00 per dozen, and after December 1st \$4 to \$6 per dozen wholesale, f.o.b. They have brought \$30 to \$35 per box f.o.b. around January 1st, and no chance to supply demand at those prices.

Moreover, it is not only a fruit to tickle the palate of the rich, it is by far the most nutritious fruit (aside from nuts) grown, and will always find a ready market among the working classes, and there will never be a glut, as after November it is a splendid keeper and shipper.

Following analysis of various foods show the great food value of the Avocado. The highest percentage of fats belongs to the Mexican type, the lowest to the West Indian, while the Guatemalan is intermediate, a trifle higher than the latter.

	Water	Protein	Fats	Carbohydrate	Ash
Cream -----	74.	2.5	16.5	4.5	0.
Avocado -----	60. to 80.	4. to 8.	15. to 30.	4. to 8.	1. to 2.
Eggs -----	73.7	14.8	10.	9.	1.
Salmon -----	64.6	21.2	12.8	0.	1.4
Guava -----	84.	.7	.9	8.	.6

The Avocado can be eaten by the most delicate person, and those who suffer from stomach or intestinal troubles find it the best food for their physical condition. When ripe the fruit will fall from the tree, though still hard, but in two or three days it softens to the consistency of hard butter, when it is ready to eat. The meat is yellow inside, shading to green on the outside, and its flavor was aptly described by a farmer's wife from Illinois, who, on tasting her first fruit, remarked "It is between a cocoanut and a musk-melon." It has a delicate nutty flavor, very pleasing, and can be eaten plain with a little salt as a vegetable, or with cream or wine and sugar. Its favorite role is a basis for salad, in which position it stands in a class by itself. Nothing will take its place, as soon as it is once known. The great thing about Avocado trees is, if possible, to plant the seed where you want the tree to grow, and never disturb it, as all the old settlers know. So I have developed an improved method of propagating my Avocados. I insert a graft as soon

as the seed sprouts so that the entire growth of the sprouting seed is made in the graft. By this method a tree of much greater vigor is secured, combining the vigor of the seedling with the qualities of the budded tree. By my method of grafting as soon as the first sprout leaves the seed, the first leaf made is from the graft, and as the seed is in a box every rootlet it makes is undisturbed when you plant it out in the grove. By the time the top has attained the standard size (15 to 25 inches), the roots will have filled the box and the tree must be set in the grove at once to obtain maximum results.

SELECTION OF STOCK.—It is impossible to tell from the size of the seed what sort of tree it will produce. Large seeds often make weak trees, with poor root systems, while a very small one will often make the most sturdy and vigorous one. Seed as soon as sprouted are dug up and inspected, and numbers discarded owing to imperfect root system, weak sprout growth, or some other defect, so that only the most vigorous are retained for stock to propagate. At this time the seed pass two inspections and from 65% to 70% are rejected and thrown away. This has a great deal to do with the remarkable vigor and prolificness of "seed-grafted" trees. They will often bear the second year, but it is best not to allow them to mature a crop before the third year, when, if well grown, they should yield a box per tree.

Being box-grown, avocados may be transplanted any time of year, yet for various reasons which I will not mention here, trees set from **April to October** succeed better than trees set from **October to April**.

PLANTING.—In preparing the soil to plant Avocado trees the "advise to growers" just preceding, will apply in a general way. But Avocados will stand forcing in a way which would prove disastrous to citrus trees or mangos, and to secure the full benefit of the vigor and push of the seed-grafted trees, special preparation of the hole is desirable. Horse manure is one of the best fertilizers for Avocados, though for that matter the manure of cows, hogs, chickens, sheep or goats is excellent. One of my customers wrote me that he had some of my seed-grafted trees planted in May 1919, which in May 1920 were 10½ feet high, with spread of branches to correspond, having bloomed the preceding winter, but not allowed to hold any fruit. All this was on pine land. I asked him how he obtained such surprising results in so short a time, for this was even better than would be looked for on custard-apple hammock, and he gave me the following explanation: He had used one-half or single wagon load of horse manure, one bucket each of raw bone, tankage and goat manure, spaded deeply into the soil and allowed two or three months to rot and mellow. He mulched with plenty of tobacco stems, and was careful that the trees were never allowed to lack abundant moisture. He said he was unable to attain such results with ordinary budded trees, as they would not respond sufficiently to such treatment, and he implied that he could not secure such amazing results with less generous use of fertilizers. Trees in custard-apple land, abundantly supplied with moist-



Twelve-Year-Old Trapp Avocado at West Palm Beach



This Photo was taken from Above Tree. Fifty-nine Fruit on This Limb

ure the first year will closely approach such growth but abundant watering is required during the period, to produce maximum results. Contrary to the rule with citrus trees and mangos, there is no danger of die-back from forcing the growth. The faster you push them the better they will succeed in the long run. Plant same distance as citrus trees.

In planting, first remove the bottom of the box and then, after placing the tree in the hole, pull the sides apart and remove them. This lessens danger of attack from woodlice. Keep well watered during the first year, and after that trees will take care of themselves. Culture is the same as for citrus trees. When planted you should mulch with plenty of tobacco stems. This is to keep off woodlice and to supply the needed potash. Bear in mind that the trees must be kept properly moist during the first year, while their roots are getting spread in the soil, and on high land in dry weather in summer three buckets per week is often required. No expensive irrigating plant is needed, as a mule and wagon will answer, and can be easily moved elsewhere after the first year, when it is no longer needed. A good plan is to drive four plastering lath about a foot in the ground around the tree in the shape of a rectangle, four feet east and west and two feet north and south. Nail two lath and three half lath between the tops and stretch a strip of burlap, old grain or fertilizer sacking on top and tack it firmly. This will furnish a partial shade from 9 a.m. to 3 p.m. This is not essential, but saves moisture and is a decided aid to the young tree.

ENEMIES.—In some localities young trees are quite subject to attack of fungus which makes black spots on the leaves, and often girdles the stem, sometimes killing the tree. To prevent this it is well to spray some fungicide, monthly and in wet weather. Following will prove convenient and efficacious. Dissolve 8 pounds bluestone in 50-gallon barrel of water, and 10 pounds of sal soda (sodium carbonate) in another 50 gallons; keep covered to prevent evaporation, and mix in equal parts as needed. Apply the same day it is mixed. In this way you may have your solution fresh whenever you want it, and as long as kept separate they will keep for years. An excellent precaution, where this trouble is feared, is to paint the trunk of each tree with whitewash made by using some of the copper solution above, thickened with air-slacked lime, before planting. The Avocado is sometimes troubled with scale, and the Guava fly has been known to attack it. Usually the tree drops its leaves, and that puts an end to the trouble, new foliage coming out clean of insects. This fly closely resembles the whitefly, but it never attacks citrus trees—the wild pawpaw being its chief food. It does little harm to the Avocado. On the whole, the Avocado has not one-fourth the enemies that the Grapefruit has in Florida, and the fruit brings over twice to attack the trees. But the best plan is to feed your trees well, and if destroyer may be used for the Guava fly, or any scale which may chance as much in the market. Ideal Oil Emulsion Paste, or any good scale given a proper start the first year, by supplying sufficient moisture the



Seed-grafted Gottfried Trees on Pine Land, 12 Months Planted



Same Trees 24 Months Planted

chances are that neither scale nor fungus will trouble them again. Bear in mind that the Avocado is a gross feeder, and can make good use of about twice as much fertilizer as citrus trees of same age. While they

live and thrive on less. they will repay you many fold for the extra food in growth and fruit. A good plan is to give them the same commercial fertilizer you would your citrus trees, and in addition an equal value of manure or castor pomace. In May, 1914, some new settlers near here planted groves on spruce-pine land. All planted some of my seed-grafted trees, and received in substance the foregoing advice from me. Being new to Florida, they had no preconceived ideas of their own on the subject, and followed my advice pretty closely. When planted these trees were about 16 or 18 inches tall and were seed planted in September, 1913, and grafted the following November. June, 1915, I visited the groves and found the trees standing from 4 to 5 feet high, with a spread of 3 to 4 feet, and nearly one-third of them holding fruit, some as many as 20. Now I do not advise allowing a tree to hold more than one or two at most the first year, and believe it better to pick them all off the first two years, as maturing a crop so young generally stunts and injures the tree. But I had a tree of the Family variety which, planted out in November, matured 23 fruit the second July, and it did not injure the tree except to cause it to lose about a year's growth.

NOT SUBJECT TO CITRUS INSECTS.—So far we have found few insects which attack both the Avocado and Citrus families. As a result great advantage can be derived by planting a grove with the two in alternation. Thus each citrus tree will be surrounded by four immediate neighbors which are immune to most insects which attack it, forming a sort of insulation against the spread of enemies from tree to tree. The same, of course, will be true of each Avocado tree. This is a matter which will immediately appeal strongly to all experienced fruit growers. Moreover, the roots seem to agree well in the soil with each other. All tropical trees while young are tender, and one or two pine tops placed on north and west sides are a good protection the first winter. An inverted vegetable hamper answers well. The second winter a frame can be rigged up, over which a cover of old fertilizer sacks sewed together may be thrown cold nights; while it may become necessary only once in eight or ten years it is a good insurance policy and costs little.

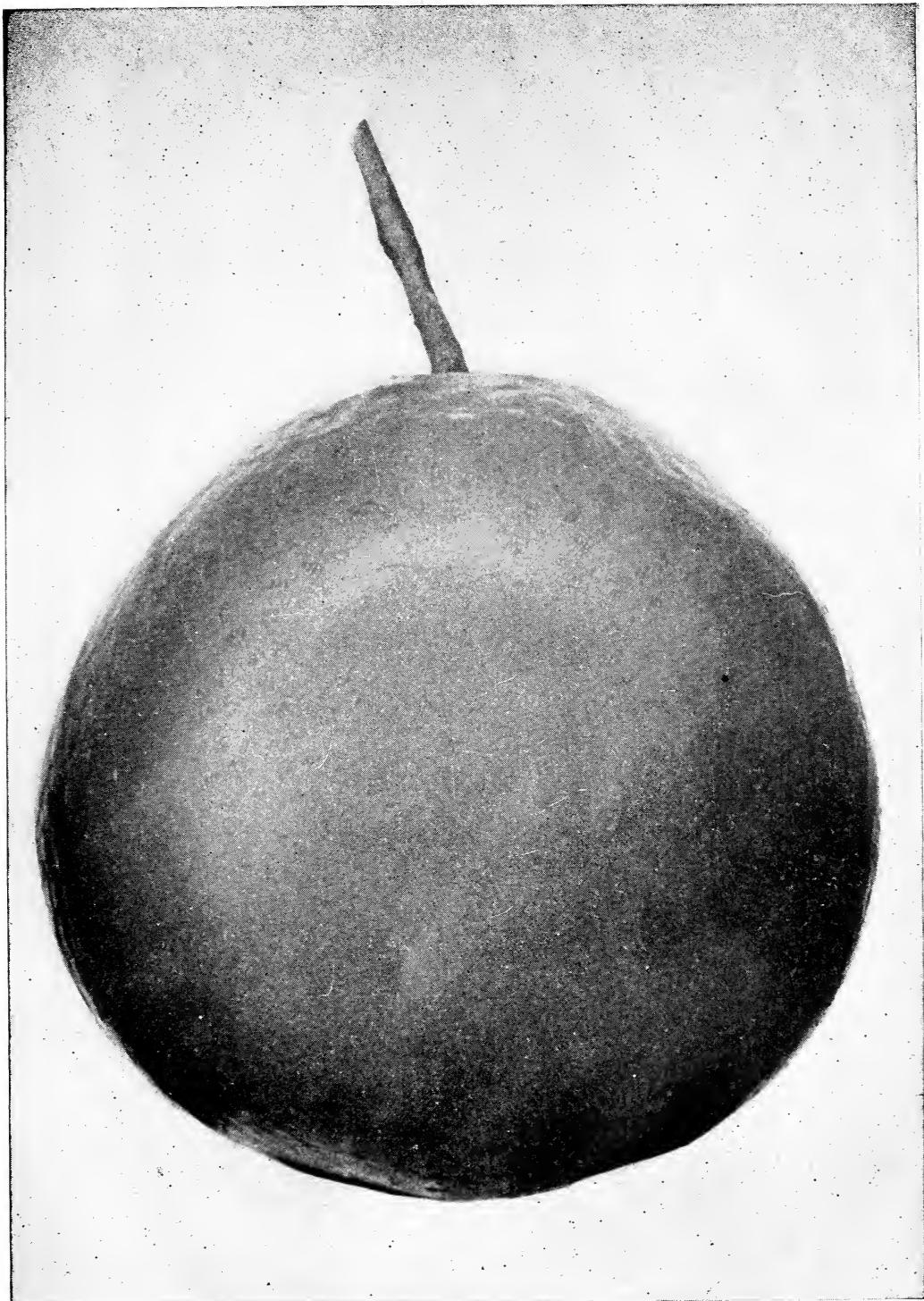
Fungus diseases seem more injurious to Avocados than insects, and preventive applications of the copper solution should be made frequently.

Apply to bearing trees several times per year, to younger trees more often.

All growers should bear in mind that the future of the grove depends mainly on the **CARE GIVEN IT THE FIRST YEAR**. Do not fail to give trees **PLENTY OF WATER**, and spray with copper solution **AS OFTEN AS NECESSARY**. With good attention the first year, the grove will stand much neglect thereafter, and suffer less harm than a citrus grove would, under similar circumstances.

TYPES.

Avocados may be divided into three types, which differ almost as much from each other as do the various branches of the Citrus family, as Orange, Lemon and Grapefruit, both in habit, foliage, fruit, odor of foliage and cold-resisting power.



Trapp Avocado—Two-thirds Natural Size

Class 1, WEST INDIAN TYPE. (For South Florida.)

This is the most tropical and bears the largest fruit, and is, in fact, the only type known in the markets of the East. Practically all the trees bearing in Florida and the West Indies are of this type.

TRAPP.—Matures so it may be eaten about November 1st, but hangs on the tree so the main crop is marketed in December, when prices are high.

Nearly round in shape, of excellent quality and flavor, exceptionally good shipper and keeper, bearing young, and enormously productive, this is the variety for general commercial planting. It has stood the test of 15 to 20 years, and established a name in the markets of this country like the Sicily lemon and Havana cigar, and needs no advertising to introduce it.

FAMILY (See cut outside front cover.)—Matures fruit during July and August lasting well into September. Seed small. Fruit pear-shape. Color green, changing to purple when ripe; flavor very delicate. Specially recommended for home use. Weight $1\frac{1}{4}$ to $2\frac{1}{4}$ pounds.

POLLOCK.—Ripens in August and September. Weight, 2 $\frac{1}{2}$ to 4 pounds, sometimes 5 pounds; seed small; color green; pearshaped, with a thick neck; flavor very rich and nutty. Not so rich as Gottfried.

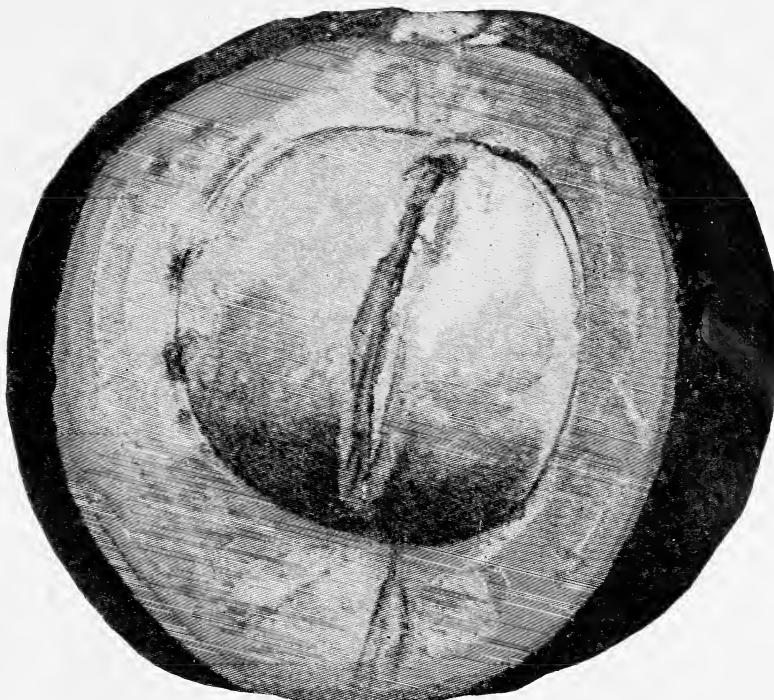
WALDIN.—Not so round as Trapp. Seed a trifle smaller, and season a trifle later. Highly prized about Homestead.

Prices on above, \$2.00 each; \$18.00 per dozen; \$125 per hundred. Special prices on large quantites. Owing to excess of demand over supply of seed-grafted Avocado trees, my stock is, most of it, engaged from 4 to 12 months in advance. Orders are booked with 25 percent down, and filled in rotation; balance to be paid on delivery. This applies especially to Classes 2 and 3.

Class 2, GUATEMALAN TYPE. (For Middle Florida.)

The Guatemalan type originates in the elevated tablelands of Guatemala, where considerable cold is experienced in winter, and is accustomed to endure almost as much as the orange. Fruit has a rough, thick rind, almost a shell in some varieties, and a tight seed. The first, while it injures the appearance, improves the shipping and keeping qualities, and, like the russet orange rind, may be a blessing in disguise. The tight seed also adds to shipping value. The fruit is generally smaller than Class 1, not so rich in coloring of meat, and a trifle different in flavor. This type is distinguished by the same odor in its foliage as the common bay, to which it is related.

This type is comparatively new in Florida and still in the experimental stage. Trees which thrive in California often act differently in Florida, and trees brought from the table lands of Guatemala from altitudes of 3,000 to 6,000 feet, would naturally be expected to meet quite a shock when removed to sea level in Florida. Many highly recommended and promising varieties elsewhere I am impelled to discard annually after a few years trial, having developed some undesirable features.



Winslow Avocado—Natural Size

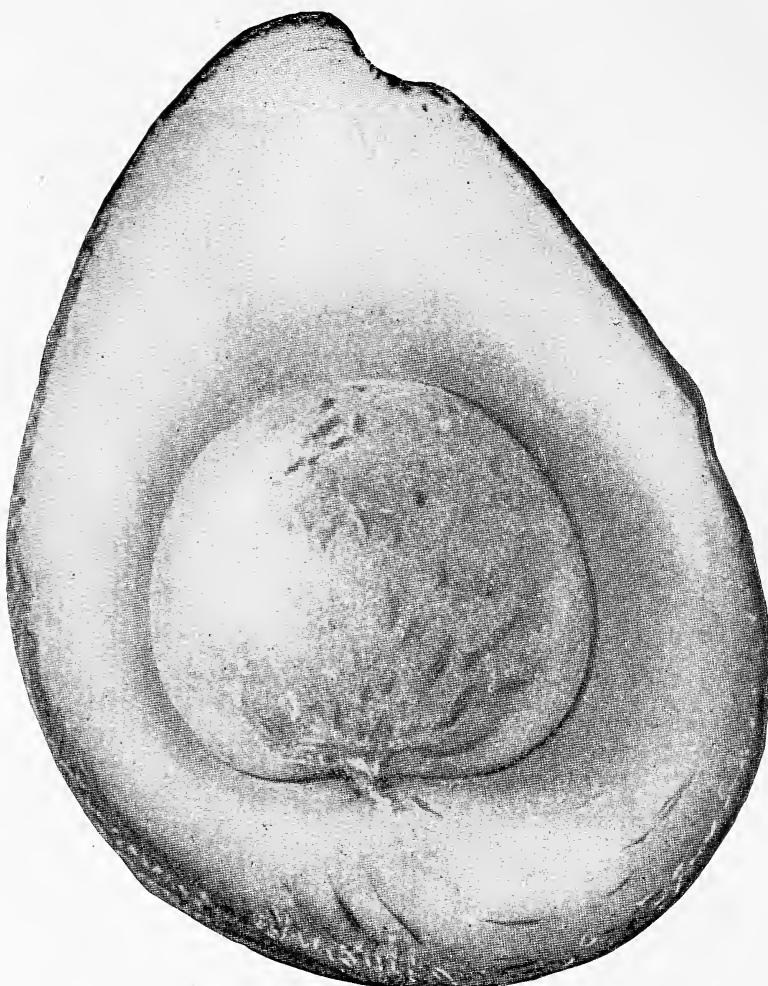
WINSLOW.—This is probably the best of the spring Avocado of Guatemala, hardshell type, among those of Florida origin. May be eaten as early as March, but does not begin to drop till April, and last summer the last one hung on into August. Thus the crop may be marketed any time in March and April, without waste, or held later, and used as they drop. A seedling from Guatemala seed, which has fruited six years in Florida, and proven a vigorous grower and good producer. Flavor very rich and nutty, smooth and delicious. Superior to any West Indian fruit. Ripe in June and July. Tight seed, and thick, hard rind, make it an ideal shipper, as well as its shape, which is almost globular. Color, dark green. In spite of the fact that the fruit does not mature till after the following crop is set, my old trees have held and are maturing a maximum crop every year, in spite of the handicap of a heavy pruning for buds and grafts. Weight, 10 to 15 oz. (See cut.)

WAGNER.—Promising variety, highly prized at Homestead. Color green. Weight, 12 to 16 oz. Almost round in shape, and very prolific. Quality good. Splendid shipper. February and March.

(The two following were recently introduced from Guatemala by Wilson Popenoe for the Agricultural Department.

NIMLIOH.—Color green. Weight, 2 to 3 pounds. Shape oval. Seed medium; quality unsurpassed. Season February and March. Vigorous grower.

PANCHOY.—Color green. Weight 16 to 20 oz. Almost round; quality unsurpassed. Season January and February. Vigorous grower. Both the above have made three good crops in Florida three consecutive years.



Taft—Natural Size

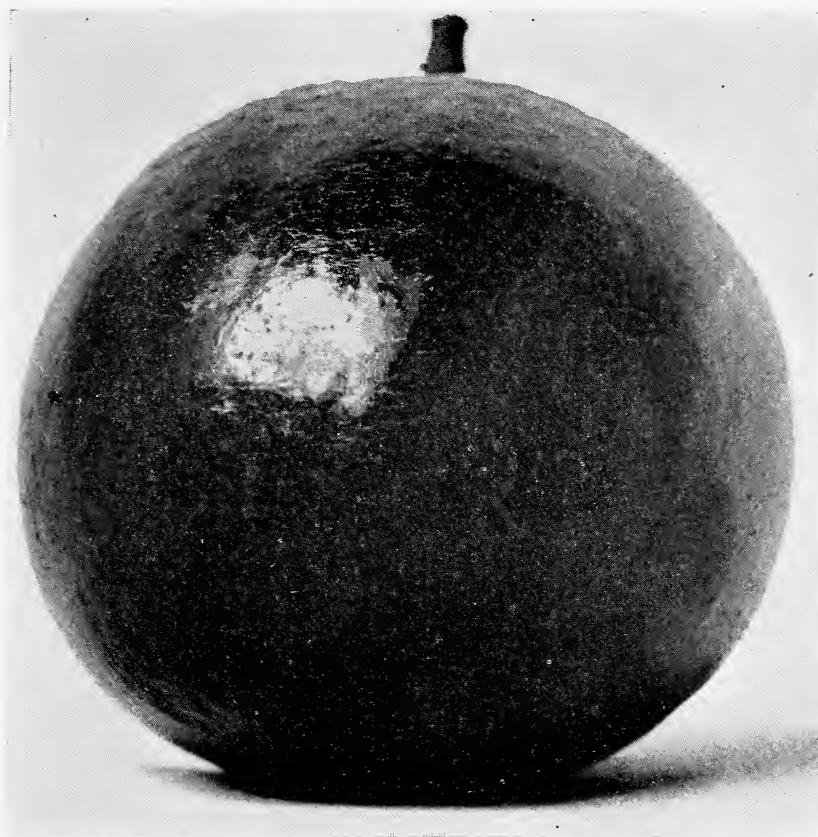
TAFT.—Weight 16 ounces. Fat 16.53%. Pearshaped. Color green. Skin thick and firm. Flesh light yellow, smooth, free from fiber, and of unusually pleasant flavor. Season February and March. (See cut.)

TAYLOR.—Florida seedling like Winslow. Season January and February. Quality good. Regular free bearer. Upright grower. Vigorous.

Two following were selected in Guatemala by Mr. E. E. Knight, and introduced by him into California.

QUEEN.—Weight 20 ounces. Color purple. Skin thick, hard and woody. Pearshaped. Flesh yellow, free from fiber, rich and nutty. Seed only $7\frac{1}{2}\%$ the weight of the fruit. Smallest tight seed known. Good grower in Florida and promising. Season January and February.

LINDA.—Very large dark purple fruit, 30 to 50 oz. in weight. Regular bearer. Shape oval. Flesh pale yellow, rich and smooth. Seed very small. Extra long keeper. Reported from California as the best keeper known. February.



Winslowson Avocado—About Half Natural Size

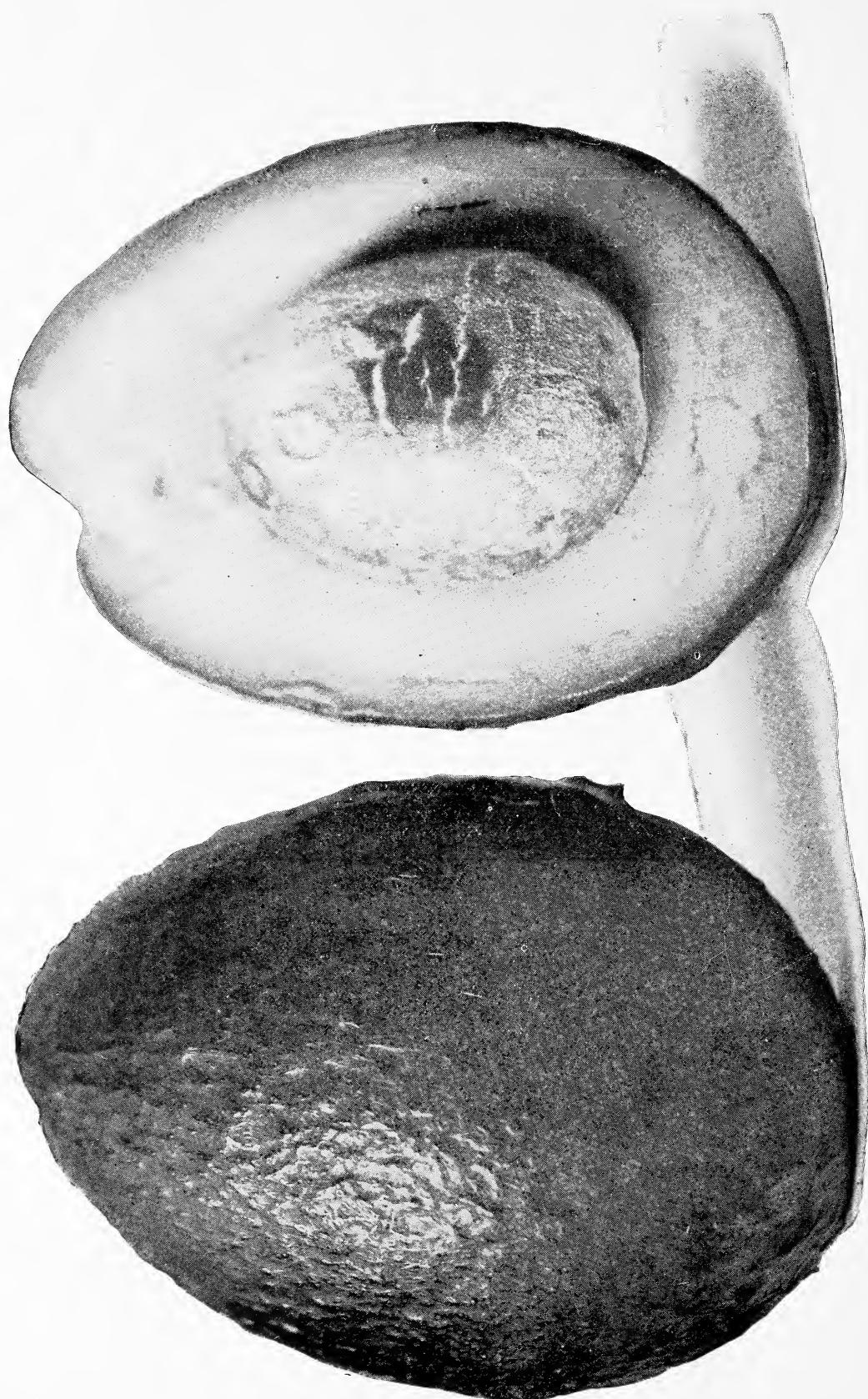
The three following are natural hybrids, produced by accidental pollination of three Florida grown Guatemalan type seedlings by West Indian type pollen (probably Trapp) through the agency of insects or wind.

WINSLOWSON. (Syn., Nameless, Rolfs No. 50 and No. 133.) Seedling from Winslow, which appears to have been hybridized with a West Indian, as it more resembles Trapp than it does Winslow. Larger than Trapp (30 to 40 oz.) rounder in shape, darker green and glossier, seed relatively smaller and always tight-fitting. Season same, or perhaps a trifle later. Prolific and precocious bearer. Much more vigorous and wonderfully resistant to insects and disease. So far seems immune. It should be planted in localities where Trapp has proven a failure. From its parentage it is likely to be more cold resistant than Trapp.

COLLINSON.—Seedling from Collins, is a very promising fruit. In shape and size it much resembles Trapp, which variety is probably its male parent, but its season is that of the female parent—February and March. Has not fruited as long as Winslowson, not as large, but richer.

TAYLORSON.—Seedling of Taylor. Pearshape green fruit, weight 1½ to 2 pounds. Ripens in January.

Fuerte Avocado, Florida Grown—Natural Size



EAGLE ROCK.—Large green fruit, ripening in March. Seed small. Quality fair. Some fiber. Prolific. Weight 2 to 3 lbs.

LULA.—Color green, weight about a pound. Quality very good. Flesh pale straw color. Prolific. Season October and November.

Class 3, MEXICAN TYPE. (For Northern Florida).

In the lofty table lands of Mexico a still hardier type is found, which has to withstand freezing temperatures frequently, with ice and snow. The fruit runs still smaller than Class 2, but is generally richer in fat than either of the other types. The skin is generally thinner, with adhering pulp, but smooth and with a tight seed.

Trees of this type have been bearing regular crops in Alachua county for past 30 years, and now stand 40 feet high, being undamaged when oranges beside them have been frozen to the ground. Also spring frosts which destroy the peach and Leconte pear blossoms in the same grove, have never shortened the crop. This type possesses the odor of anise in its foliage, as a distinguishing characteristic, instead of the bay odor of Class 2.

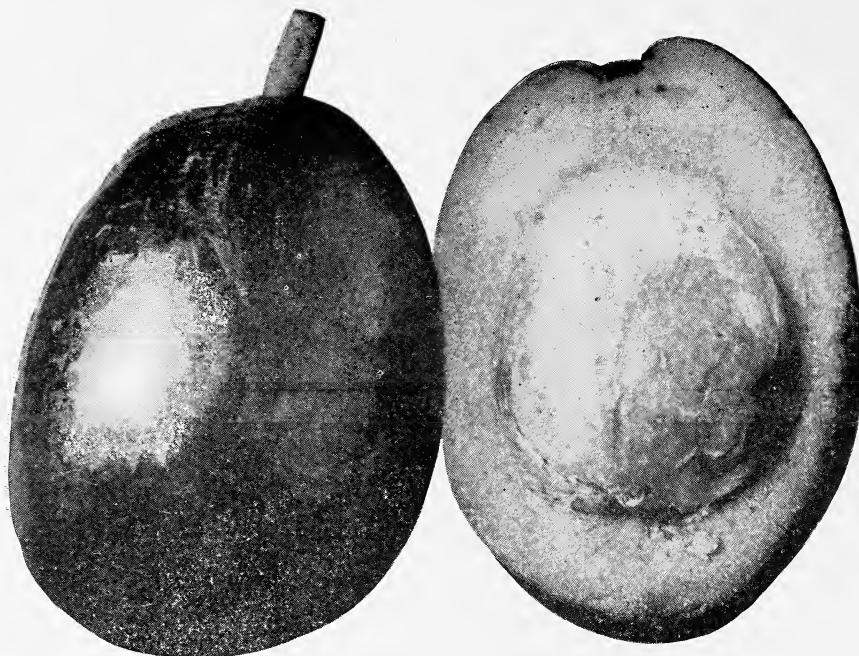
FUERTE (See Cut.)—Weight 12-16 ounces. Fat 30.72%. Pear-shaped. Color green. Skin thin, but hard. Flesh straw-colored, smooth, rich and well flavored. Unusually vigorous grower and good producer. It is about the richest known avocado, and runs higher in fat than does the olive in California. Matures about the same season as Trapp, and is almost as hardy as the pure Mexican, though probably a cross of Mexican and Guatemalan. Foliage has characteristic anise odor.

SAN SEBASTIAN.—Weight 6-8 ounces. Color glossy black. Skin rather thick, separating from the golden yellow flesh, of rich color. Prolific and vigorous. Begins to ripen in June in Florida. (See cut.)

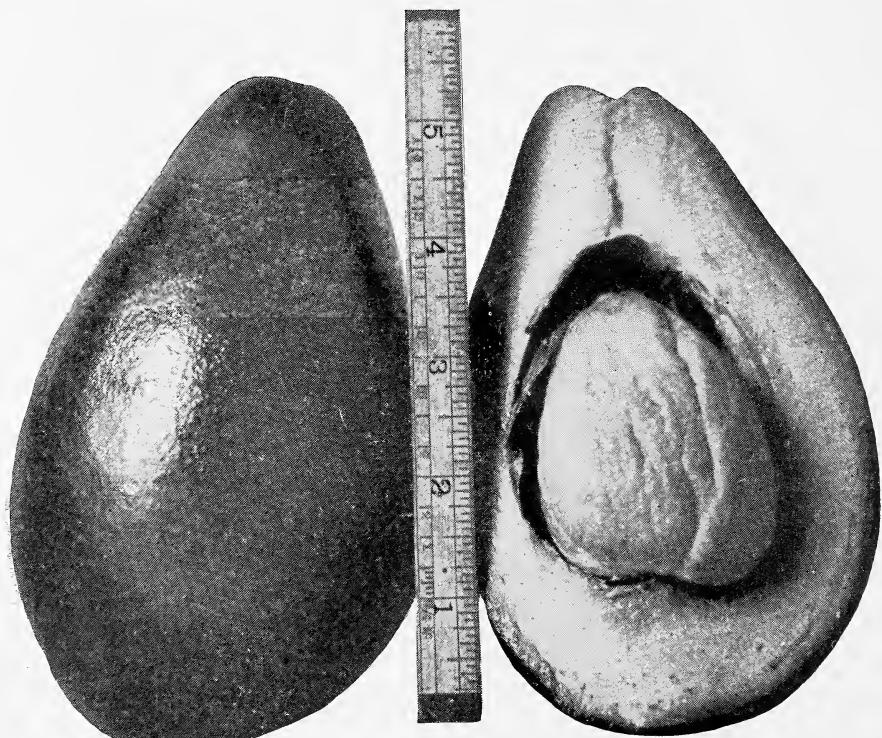
GOTTFRIED (See Cut).—This remarkable tree is pure Mexican, and hence extremely hardy, adapted to the colder portions of Florida. Mexican fruit is generally very small, but this is certainly an exception. Average weight about a pound; color purplish-black when ripe; quality unsurpassed, as rich as a nut, and ripens in August and September. I can recommend this highly for commercial planting on a large scale in middle and northern Florida. No Cuban fruit can compete with it in richness and quality and nobody would buy them as long as Gottfrieds were to be had. Unlike other Mexicans, it peels readily, and its meat is rich yellow, with no objectionable twang nor fiber.

Many varieties of classes 2 and 3 which have been very successful in California, have after 8 to 10 years test here proven such shy bearers that I have ceased to propagate them. The only ones of California origin which I am offering this season are Taft, Queen, Linda, Wagner and Fuerte.

Prices on Classes 2 and 3, \$2.50 each; \$24.00 per dozen; \$150.00 per 100. Special prices per thousand.



San Sebastian—Natural Size



Gottfried. (This specimen weighed 19 ounces).

MANGO

The Mango, which is the king of tropical fruits ripens in the summer time, and for that reason will never be valuable for planting on a large scale for Northern markets, until refrigerators can be applied from the grove to the consumer.

EAST INDIA TYPE.

BENNETT ALPHONSO.—This variety was introduced by the Department and has proved a free bearer and vigorous grower. No fiber, and flavor rich and spicy. Preferred by some to Mulgoba.

ROUND AMINI.—This is a very prolific bearer; fruit roundish oval, bright yellow with red cheek. It resembles the finest flavored of any of the old native seedlings more than any other East India variety, but it has no fiber. I recommend this as next to Haden for commercial planting, and no commercial grove should fail to embrace a good proportion of this variety. Weight, 6 to 10 ounces.

LANGRA BENARSI.—Kidney shaped; sometimes weighing up to 3½ pounds; flavor rich and spicy; color yellowish green.

MULGOBA.—This is the choicest mango that has yet fruited in Florida, and has been bearing for 20-25 years. It has its own place on the fancy fruit markets in large cities, and we cannot begin to fill the demand. It is not so prolific as some of the other varieties. Weight, 12 to 18 ounces; yellow with carmine cheek, aroma abundant, and more delicious than any other fruit in the world.

RAJAH, or RAJPURY.—Average 12 ounces in weight; almost round, yellow with pink cheek; flavor rich and buttery; both flavor and aroma distinct from any other mango; very prolific. Only missed one crop in 12 years.

HADEN.—This is a seedling from Mulgoba, and is very highly prized by some growers, as being almost identical with Mulgoba. It averages handsomer in appearance, a more reliable bearer, and almost as good in quality. Tree is also an exceptionally vigorous grower. This is the main standby for commercial planting. Weight, 15 to 20 ounces.

CHINESE TYPE.

(The three following are of the Chinese strain and originating in a very rainy region are hence supposed to be more immune to fungus.)

SUNDERSHA.—Weighs 2 to 3 pounds. Very prolific, and of fair quality, with little fiber, but must be cut green and used for cooking as it generally cracks and begins to decay when three-fourths grown.

CAMBODIANA.—Weighs 6 to 10 ounces. Good table fruit, free

from fiber, sub-acid when first matured, becoming very sweet when fully ripe. Very prolific, often making several crops. Color straw-yellow.

CECIL.—This variety is very long and slender in shape, and has been found very attractive to the New Orleans market. It originated as a seedling from seed brought from the Philippines to Mexico, and seed from there planted at Miami by Samuel Belcher. Closely resembles Cambodiana except in shape.

Prices.—5x5x12-inch boxes, 15-25 in. high, \$1.50 each; 5x5x12-inch boxes, 2-3 feet high, \$2.00; 6x6x14-inch boxes, 3-4 feet high, \$2.50 each; 6x6x14-inch boxes, 4-5 feet high, \$3.00. Kegs, 5-7 feet high, \$5.00 to \$10.00 each.

BROOK'S LATE MANGO.

This is another natural hybrid, originating as a seedling of Sundersha, pollinated by East Indian Type pollen, probably from Mulgoba. The fruit combines the shape of the Sundersha with the rich musky flavor and aroma of the East Indian Type and has the red cheek also. It appears to be quite as prolific as the female parent, which is saying a good deal, and it does not have the unfortunate tendency to crack which is so objectionable in the Sundersha. With no further advantages it would be a fruit well worthy of cultivation and everybody would want to have it in his orchard, but it seems to have enlarged and developed another valuable trait of the Sundersha, namely bearing out of season. The original tree has produced four crops which matured from September to as late as December. A large tree which has been topworked from the original has also produced late fruit, and is the only specimen now left bearing, as the old tree has been practically destroyed. I do not claim that the entire crop is always very late, for it produces fruit in the summer, but it seems to be the only mango which has any pronounced tendency to make any sort of fall and winter crop. Price \$5.

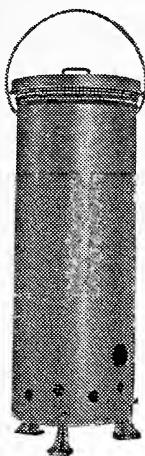
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